

4/10/19

# Airline Reservation System

**Problem Statement :** To design an application using Java, based on object oriented programming to perform ~~hospital management~~ in the following way .

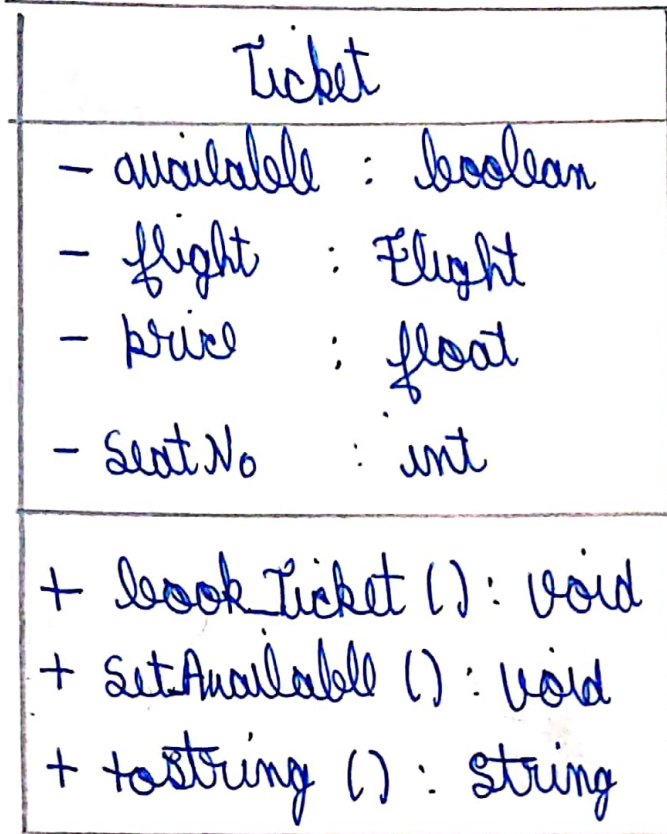
1. Store the passenger details
2. Store the flight details
3. Purchase a ticket
4. Cancel a ticket
5. Cancel a flight
6. Display passenger details
7. Display flight details

## core concepts

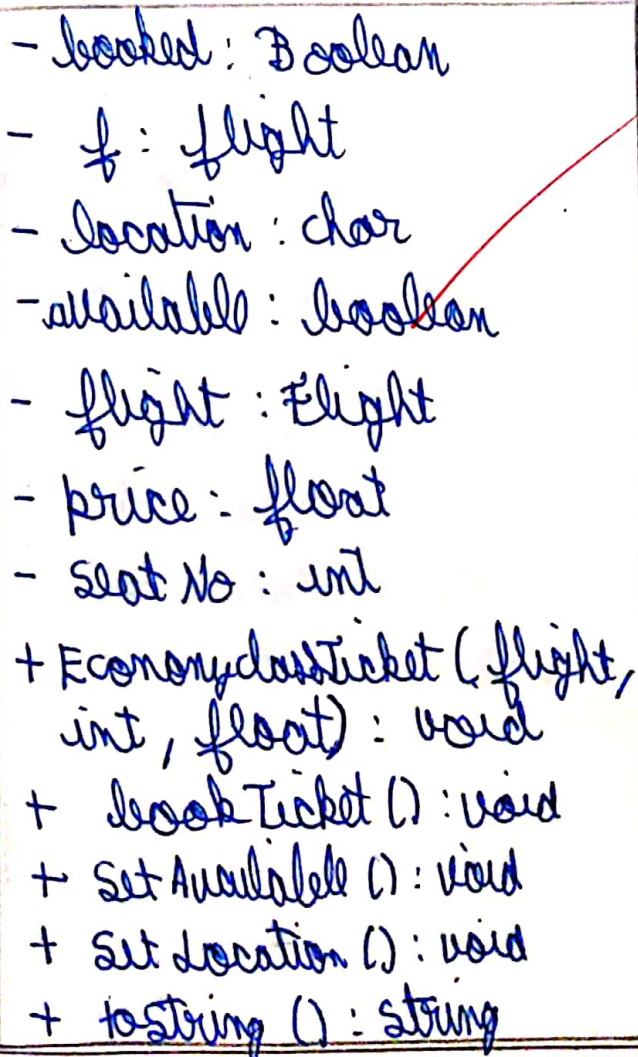
The core concepts covered in the project are

1. Inheritance
2. Polymorphism
3. Packages
4. Exception Handling
5. Generics

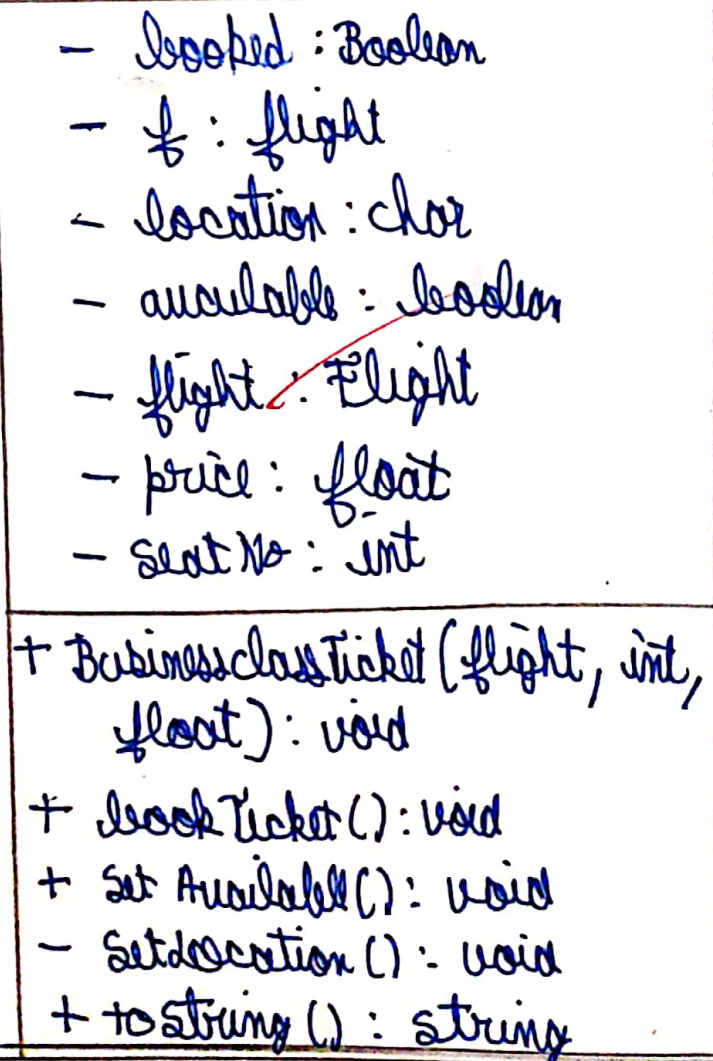
# class Diagram



## Economy class Ticket



## Business class Ticket





## Person

- dob: String
- email: String
- Phone Number: String
- Email: String
- dob: String
- name: String
- Person (String, String, String, String): void

## Passenger

- Passport No: String
- ticket: Ticket
- + Passenger (String): void
- + Passenger (String, String, String, String, Ticket): void
- + CancelTicket(): void
- + display(): String
- + equals (Object): boolean
- + toString(): String

# Flight

- airline : String
- Business Ticket : Arraylist < BusinessclassTicket >
- Economy Ticket : Arraylist < EconomyclassTicket >
- arrival : Date
- Departure : Date
- destination : String
- flightNo : String
- Source : String
- Flight (String): void
- Flight (String, String, String, String, String) : void

- + bookTicket (String): Ticket
- + equals (Object): boolean
- + generateTickets (int, int, float, float): void
- noBusinessleft(): int
- noEconomyleft(): int
- + toString(): String

class Hierarchy :

